

Petrothene® GA818073

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE GA818073 offers the high environmental stress crack resistance characteristics of linear low density polyethylene with the processing properties needed for blowmolding and extrusion applications. The broad molecular weight distribution of GA818073 combines good melt strength with a significantly reduced tendency to melt fracture, two drawbacks common to conventional fractional melt index LLDPE resins. Applications for this resin include beverage and drip irrigation tubing, squeeze tubes and bottles for pharmaceutical and personal care product packaging, drum liners, highway traffic channellizers and other large, blow molded parts.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	High ESCR (Stress Crack Resist.)		
	Med.-Wide Molecular Weight Distrib.		
Uses	Blow Molding Applications		
	Liners		
	Packaging		
	Tubing		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	15.0	MPa	ASTM D638
Tensile Elongation ² (Break)	> 700	%	ASTM D638
Flexural Modulus	276	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	48.0	°C	ASTM D648
Brittleness Temperature	< -42.0	°C	ASTM D746

Vicat Softening Temperature	88.0	°C	ASTM D1525
NOTE			
1.	Type IV		
2.	Type IV		

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